

Materials List for:

Simultaneous Mapping and Quantitation of Ribonucleotides in Human Mitochondrial DNA

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Materials

Name	Company	Catalog Number	Comments
10x T4 Polynucleotide Kinase Reaction Buffer	New England Biolabs	B0201S	
10x T4 RNA Ligase Reaction Buffer	New England Biolabs	B0216L	
1x PBS	Medicago	09-9400-100	dissolve 1 tablet in H ₂ O to a final volume of 1 L
2-Propanol	Sigma-Aldrich	33539-1L-GL-R	
2100 Bioanalyzer	Agilent Technologies	G2940CA	
50 mL Centrifuge Tube	VWR	525-0610	
Adenosine 5'-Triphosphate (ATP, 10 mM)	New England Biolabs	P0756S	dilute with EB to 2 mM
Agilent DNA 1000 Kit	Agilent Technologies	5067-1504	
BSA, Molecular Biology Grade (20 mg/mL)	New England Biolabs	B9000S	dilute with nuclease-free H ₂ O to 1 mg/mL
Buffer EB	QIAGEN	19086	referred to as EB
CleanPCR paramagnetic beads	CleanNA	CPCR-0050	
Deoxynucleotide (dNTP) Solution Mix (10 mM each)	New England Biolabs	N0447L	dilute with EB to 2 mM
DMEM, high glucose, GlutaMAX Supplement	Gibco	61965026	
DynaMag 96 Side	Thermo Fisher	12331D	
Ethanol 99.5% analytical grade	Solveco	1395	dilute with milliQ water to 70%
Ethylenediaminetetraacetic acid solution (EDTA, 0.5 M)	Sigma-Aldrich	03690-100ML	
Fetal bovine serum	Gibco	10500056	
HEPES buffer pH 8.0 (1 M) sterile BC	AppliChem	A6906,0125	
Hexamine cobalt(III) chloride (CoCl ₃ (NH ₃) ₆)	Sigma-Aldrich	H7891-5G	dissolve in nuclease-free H ₂ O for 10 M solution, sterile filter. CAUTION: carcinogenic, sensitizing and hazardous to aquatic environment.
HincII	New England Biolabs	R0103S	supplied with NEBuffer 3.1
Hybridiser HB-1D	Techne	FHB4DD	
KAPA HiFi HotStart ReadyMix (2X)	Kapa Biosystems	KK2602	
Lysis buffer			50 mM EDTA, 20 mM HEPES, NaCl 75 mM, Proteinase K (200 µg/mL), 1% SDS

Micro tube 1.5 mL	Sarstedt	72.690.001	
Microcentrifuge 5424R	Eppendorf	5404000014	
Microcentrifuge MiniStar silverline	VWR	521-2844	
Multiply μ StripPro 0.2 mL tube	Sarstedt	72.991.992	
Nuclease-free water	Ambion	AM9937	
Phenol – chloroform – isoamyl alcohol (25:24:1)	Sigma-Aldrich	77617-500ML	
Potassium chloride (KCl)	VWR	26764.232	dissolve in nuclease-free H ₂ O for 3 M solution, sterile filter
Potassium hydroxide (KOH)	VWR	26668.296	dissolve in nuclease-free H ₂ O for 3 M solution, sterile filter
Proteinase K	Ambion	AM2546	
Qubit 3.0 Fluorometer	Invitrogen	Q33216	
Qubit Assay Tubes	Invitrogen	Q32856	
Qubit dsDNA BR Assay Kit	Invitrogen	Q32850	CAUTION: Contains flammable and toxic components
Qubit dsDNA HS Assay Kit	Invitrogen	Q32851	CAUTION: Contains flammable and toxic components
Refrigerated Centrifuge 4K15	Sigma Laboratory Centrifuges	No. 10740	
SDS Solution, 10%	Invitrogen	15553-035	
Sodium acetate buffer solution, pH 5.2, 3 M (NaAc)	Sigma-Aldrich	S7899	
Sodium chloride (NaCl)	VWR	27810.295	dissolve in nuclease-free H ₂ O for 5 M solution, sterile filter
T100 Thermal Cycler	Bio-Rad	1861096	
T4 Polynucleotide Kinase (3' phosphatase minus)	New England Biolabs	M0236L	
T4 RNA Ligase 1 (ssRNA Ligase)	New England Biolabs	M0204L	supplied with PEG 8000 (50%)
T7 DNA Polymerase (unmodified)	New England Biolabs	M0274S	supplied with 10x T7 DNA Polymerase Reaction Buffer
TE Buffer	Invitrogen	12090015	
ThermoMixer F2.0	Eppendorf	5387000013	